



# Artificial Software Diversification for WebAssembly

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i .

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**Abstract**

[1]

**Keywords:** Lorem, Ipsum, Dolor, Sit, Amet

**Sammanfattning**

[1]

## LIST OF PAPERS

1. *WebAssembly Diversification for Malware Evasion*  
**Javier Cabrera-Arteaga**, Tim Toady, Martin Monperrus, Benoit Baudry  
*Computers & Security, Volume 131, 2023*  
<https://www.sciencedirect.com/science/article/pii/S0167404823002067>
2. *Wasm-mutate: Fast and Effective Binary Diversification for WebAssembly*  
**Javier Cabrera-Arteaga**, Nicholas Fitzgerald, Martin Monperrus, Benoit Baudry
3. *Multi-Variant Execution at the Edge*  
**Javier Cabrera-Arteaga**, Pierre Laperdrix, Martin Monperrus, Benoit Baudry  
*Conference on Computer and Communications Security (CCS 2022), Moving Target Defense (MTD)*  
<https://dl.acm.org/doi/abs/10.1145/3560828.3564007>
4. *CROW: Code Diversification for WebAssembly*  
**Javier Cabrera-Arteaga**, Orestis Floros, Oscar Vera-Pérez, Benoit Baudry, Martin Monperrus  
*Network and Distributed System Security Symposium (NDSS 2021), MADWeb*  
<https://doi.org/10.14722/madweb.2021.23004>
5. *Superoptimization of WebAssembly Bytecode*  
**Javier Cabrera-Arteaga**, Shrinish Donde, Jian Gu, Orestis Floros, Lucas Satabin, Benoit Baudry, Martin Monperrus  
*Conference Companion of the 4th International Conference on Art, Science, and Engineering of Programming (Programming 2021), MoreVMs*  
<https://doi.org/10.1145/3397537.3397567>
6. *Scalable Comparison of JavaScript V8 Bytecode Traces*  
**Javier Cabrera-Arteaga**, Martin Monperrus, Benoit Baudry  
*11th ACM SIGPLAN International Workshop on Virtual Machines and Intermediate Languages (SPLASH 2019)*  
<https://doi.org/10.1145/3358504.3361228>



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## ACRONYMS

List of commonly used acronyms:

**Wasm** WebAssembly



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## **Part I**

# **Thesis**

